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(54) Title: WEAR RESISTANT GRINDING MACHINE COMPONENTS

(57) Abstract: Various grinding machine components are made of superhard materials, including certain machine grade ceramics, including such materials as carbides, nitrides, borides, oxides, oxynitrides, or any other ceramic component. The component may either be a solid piece of ceramic or wear resistant material, or may have an insert or a piece of the wear resistant material adhered to a metallic substrate base for use within the machine. Graded materials may also be used with a gradient from a 100% concentration of ceramic at one surface, and gradually changing into a 100% metal at the other surface, would be advantageous. These superhard materials overcome some of the previously experienced problems as they will hold closer tolerances and resist wear better than other materials.

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